

## Fine Particulate Matter

**PM<sub>2.5</sub>** is primarily generated from combustion sources. It can be emitted directly as particulate, or it can be formed from gases that are emitted, which combine or condense in the atmosphere to make particles. In addition to the current ambient monitoring, the department plans to conduct sampling that could be analyzed for specific compounds or species of compounds. This would help determine what types of sources are most responsible for **PM<sub>2.5</sub>** levels in different parts of the state.

The time schedule for the **PM<sub>2.5</sub>** standard to be implemented and attained will take several years because a new monitoring system for this type of pollution must be created. Based on EPA guidance, Missouri has designed a network of 30 monitors. By the end of 1999, 20 monitoring sites were in operation. EPA will designate the area **attainment** by 2003 based on three years of data gathered since 1999.

## 1999 - 2001 PM<sub>2.5</sub> Data Summary

24-hr Std = 65  $\mu\text{g}/\text{m}^3$ , 98th percentile Annual Mean Std = 15.0  $\mu\text{g}/\text{m}^3$

St. Louis	Maximum			Minimum			Mean
	1999	2000	2001	1999	2000	2001	
West Alton	43.7	35.2	42.0	14.4	14.9	14.8	14.7
Margaretta	49.4	41.8	48.4	15.3	15.0	14.1	14.8
Blair Street	64.5	45.2	52.5	17.3*	16.4	15.2	16.3
South Broadway	-	42.3	52.5	-	15.8*	14.8	15.3
2nd & Mound	29.0	43.3	51.3	15.8*	16.0	15.4	15.7
Florissant Valley	46.9	37.7	36.1	14.6	14.3	13.4	14.1
Clayton	46.7	51.0	36.0	15.2	14.8	13.8	14.6
South Lindberg	-	-	28.1	-	-	12.1*	12.1
Arnold	46.5	34.8	36.8	15.2	14.7	14.5	14.8

Kansas City							
Liberty	28.9	32.8	32.1	11.2	11.1	12.2	11.5
North Kansas City	37.3	39.5	43.5	12.2	13.1	13.0	12.8
Sugar Creek	36.2	37.3	39.4	11.8	12.6	12.6	12.3
Locust	34.9	41.9	37.2	14.0	13.4	14.2	13.9
Plaza	-	40.4	35.8	-	11.3*	13.0	12.2
Richards-Gebaur	30.1	-	-	11.6	-	-	-
Belton	-	40.9	34.5	-	10.9	11.4	11.3

Outstate							
Eldorado Springs	31.2	37.3	26.5	11.3	11.5	11.6	11.5
Mark Twain	38.9	34.5	33.7	11.1	11.0	11.2	11.1
Ste. Genevieve	42.1	37.0	34.5	13.8	15.2	13.7	14.2
SMSU	35.0	42.7	31.2	12.2	12.3	12.2	12.2
St. Joseph	30.8	31.9	35.4	12.5	11.8	12.9	12.4
Carthage Stone	37.7	31.3	34.1	13.1	13.2	14.4	13.6
Mountain View	50.2	37.2	-	13.1	13.5	-	13.3
Belle	-	-	96.0	-	-	21.8*	21.8

\* = less than one full year of data